



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

### Complete if Known

Application Number	10/042,735
Filing Date	October 25, 2001
First Named Inventor	TSOREF Liat et al
Art Unit	3737
Examiner Name	

Sheet 1 of 4 Attorney Docket Number 36958

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date DD-MMM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
1	2003/0035773	20-Feb-2003		Totterman et al.	
2	2003/0055502	20-Mar-2003		Lang et al.	
3	2003/0229299	11-Dec-2003		Shimura et al.	
4	2004/0193048	30-Sep-2004		Tsoref	
5	4,490,640	25-Dec-1984		Honda	
6	4,752,918	21-Jun-1988		Boucher et al.	
7	4,774,959	04-Oct-1988		Palmer et al.	
8	4,870,972	03-Oct-1989		Maerfeld et al.	
9	4,913,157	03-Apr-1990		Pratt Jr. et al.	
10	4,963,782	16-Oct-1990		Bui et al.	
11	5,452,722	26-Sep-1995		Langton	
12	5,533,519	09-Jul-1996		Radke et al.	
13	5,615,681	01-Apr-1997		Ohtomo	
14	5,761,156	02-Jun-1998		Reuter et al.	
15	5,824,085	20-Oct-1998		Sahay et al.	
16	6,086,538	11-Jul-2000		Jørgensen et al.	
17	6,095,979	01-Aug-2000		Ohtomo	
18	6,244,101	12-Jun-2001		Autrey et al.	
19	6,344,024	05-Feb-2002		Brucher et al.	
20	6,413,215	02-Jul-2002		Wu et al.	
21	6,463,167	08-Oct-2002		Feldman et al.	
22	6,585,666	01-Jul-2003		Suh et al.	
23	6,607,487	19-Aug-2003		Chang et al.	
24	6,799,066	28-Sep-2004		Steines et al.	
25	6,836,557	28-Dec-2004		Tamez-Peña et al.	
26	7,204,807	17-Apr-2007		Tsoref	

Examiner Signature	Date Considered
--------------------	-----------------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

1. Applicant's unique citation designation number (optional)

1. Applicant's unique citation designation number (optional).  
2. W-1-5-1 - CHARTER 2 - 100

<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard S1.3).

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

6. Applicant is to place a check mark here if English language translation is attached.

Applicant is to place a check mark here if English language translation is attached.  
This collection of information is required by 37 CFR 1.97 and 1.98. The information

This collection of information is required by 37 CFR 1.97 and 1.98. The information required to obtain or retain a benefit by the public which is to be (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	3	Of	4	Attorney Docket Number	36958
-------	---	----	---	------------------------	-------

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	36	International Search Report Dated 01 July 2002 From the International Searching Authority Re.: Application No. PCT/IL01/00763.	
	37	International Search Report Dated 01 March 2002 From the International Searching Authority Re.: Application No. PCT/IL01/00683;	
	38	International Search Report Dated 15 April 2003 From the International Searching Authority Re.: Application No. PCT/IL02/00612.	
	39	Notice of Allowance Dated 30 June 2006 From the US Patent and Trademark Office Re.: Application No. 10/484,403.	
	40	Official Action Dated 03 August 2006 From the US Patent and Trademark Office Re.: Application No. 10/484,399.	
	41	Official Action Dated 14 November 2005 From the US Patent and Trademark Office Re.: Application No. 10/484,403.	
	42	Adler et al. "Quantitative Assessment of Cartilage Surface Roughness in Osteoarthritis Using High Frequency Ultrasound", Ultrasound in Medicine and Biology, XP008004715, 18(1): 51-58, 1992.	
	43	Aisen et al. "Sonographic Evaluation of the Cartilage of the Knee", Radiology, 153(3): 781-784, December 1983.	
	44	Gahunia et al. "Osteoarthritis Staging: Comparison Between Magnetic Resonance Imaging, Gross Pathology and Histopathology in the Rhesus Macaque", Osteoarthritis and Cartilage, 3: 169-180, 1995.	
	45	Gonzalez et al. "Representation and Description", Digital Image Processing, Addison-Wesley Publishing Company, P.506-518, 1992.	
	46	Grassi et al. "Sonographic Imaging of Normal and Osteoarthritis Cartilage", Seminars in Arthritis and Rheumatism, 28(6): 388-403, June 1999. Abstract.	
	47	Haralick et al. "Textural Features for Image Classification", IEEE Transactions on Systems, Man, and Cybernetics, SMC-3(6): 610-621, November 1973.	
	48	Iagnocco et al. "Sonographic Evaluation of Femoral Condylar Cartilage in Osteoarthritis and Rheumatoid Arthritis", Scandinavian Journal of Rheumatology, 21: 201-203, 1992. Abstract.	
	49	Jain "Image Filtering and Restoration/ Image Analysis and Computer Vision", Fundamentals of Digital Image Processing, Chap.8/9: 313-331/394-400, 1989.	
	50	Lefebre et al. "Automatic Three-Dimensional Reconstruction and Characterization of Articular Cartilage From High-Resolution Ultrasound Acquisitions", Ultrasound in Medicine and Biology, XP004295291, 24(9): 1369-1381, December 1998.	
Examiner Signature		Date Considered	

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.  
Include copy of copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

**1** Applicant's unique citation designation number (optional).

2 See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3).

4 Enter Office that issued the document, by the two-letter code (WIPO Standard S1.3).

4 Enter the patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

\* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Stat.

<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.